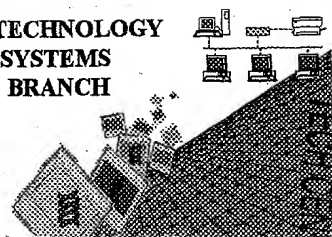


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



MAY 10 2002

RECEIVED

1627

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/425,804B
Source: 1600
Date Processed by STIC: 5/1/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

RAW SEQUENCE LISTING

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

E--> 415 gtgggaatctc ctgg 14 - line count is 15
 435 <210> SEQ ID NO: 35
 436 <211> LENGTH: 14
 437 <212> TYPE: DNA
 438 <213> ORGANISM: Artificial Sequence
 440 <220> FEATURE:
 441 <221> NAME/KEY: modified_base
 W--> 442 <212> TYPE: (2) <222> - change to <222> - only needed once
 E--> 442 <212> TYPE: (2) delete
 W--> 443 <213> ORGANISM: thymidine 3'-O-phosphorothioate
 445 <220> FEATURE:
 446 <221> NAME/KEY: modified_base
 447 <222> LOCATION: (7)
 448 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
 450 <220> FEATURE:
 451 <221> NAME/KEY: modified_base
 452 <222> LOCATION: (9)
 453 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
 455 <220> FEATURE:
 456 <221> NAME/KEY: modified_base
 457 <222> LOCATION: (12)
 458 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
 460 <400> SEQUENCE: 35
 461 gtgggaatctc ctgg 14
 463 <210> SEQ ID NO: 36
 464 <211> LENGTH: 14
 465 <212> TYPE: DNA
 466 <213> ORGANISM: Artificial Sequence
 468 <220> FEATURE:
 469 <221> NAME/KEY: modified_base
 W--> 470 <212> TYPE: Compliment (2) - some error as above
 E--> 470 <212> TYPE: Compliment (2) <222>
 W--> 471 <213> ORGANISM: phosphorothioate <222> - change to <223>
 473 <220> FEATURE:
 474 <221> NAME/KEY: modified_base
 W--> 475 <212> TYPE: Compliment (12) - some
 E--> 475 <212> TYPE: Compliment (12) <222>
 W--> 476 <213> ORGANISM: phosphorothioate <222> - change to <223>
 478 <220> FEATURE:
 479 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
 481 <400> SEQUENCE: 36
 482 ccaggagatt ccac 14
 484 <210> SEQ ID NO: 37
 485 <211> LENGTH: 14
 486 <212> TYPE: DNA
 487 <213> ORGANISM: Artificial Sequence
 489 <220> FEATURE:
 490 <221> NAME/KEY: modified_base
 W--> 491 <212> TYPE: Compliment (5)

<222>

RAW SEQUENCE LISTING

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

E--> 491 <212> TYPE: Complement (5) *delete*
W--> 492 <213> ORGANISM: phosphorothioate *→ 2223>*
494 <220> FEATURE:
495 <221> NAME/KEY: modified_base
W--> 496 <212> TYPE: Complement (7) *→ 2222>*
E--> 496 <212> TYPE: Complement (7) *delete*
W--> 497 <213> ORGANISM: phosphorothioate *→ 2223>*
499 <220> FEATURE:
500 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
502 <400> SEQUENCE: 37
503 ccaggagatt ccac 14
562 <210> SEQ ID NO: 40
563 <211> LENGTH: 14
564 <212> TYPE: DNA
565 <213> ORGANISM: Artificial Sequence
567 <220> FEATURE:
568 <221> NAME/KEY: modified_base
569 <222> LOCATION: (9)..(10)
570 <223> OTHER INFORMATION: phosphorothioate
572 <220> FEATURE:
573 <221> NAME/KEY: modified_base
574 <222> LOCATION: Complement (5)
575 <223> OTHER INFORMATION: phosphorothioate
577 <220> FEATURE:
578 <221> NAME/KEY: modified_base
579 <222> LOCATION: Complement (7)
580 <223> OTHER INFORMATION: phosphorothioate
582 <220> FEATURE:
583 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
E--> 585 <400> SEQUENCE: 38
586 ccaggagatt ccac 14
E--> 588 <210> SEQ ID NO: 40 *→ Skipped sequence, see p.5*
589 <211> LENGTH: 14
590 <212> TYPE: DNA
591 <213> ORGANISM: Artificial Sequence
593 <220> FEATURE:
594 <221> NAME/KEY: modified_base
595 <222> LOCATION: (9)..(10)
596 <223> OTHER INFORMATION: phosphorothioate
598 <220> FEATURE:
599 <221> NAME/KEY: modified_base
600 <222> LOCATION: Complement (2)
601 <223> OTHER INFORMATION: phosphorothioate
603 <220> FEATURE:
604 <221> NAME/KEY: modified_base
605 <222> LOCATION: Complement (5)
606 <223> OTHER INFORMATION: phosphorothioate
608 <220> FEATURE:
609 <221> NAME/KEY: modified_base

RAW SEQUENCE LISTING

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

```

610 <222> LOCATION: Complement (7)
611 <223> OTHER INFORMATION: phosphorothioate
613 <220> FEATURE:
614 <221> NAME/KEY: modified_base
615 <222> LOCATION: Complement (12)
616 <223> OTHER INFORMATION: phosphorothioate
618 <220> FEATURE:
619 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
E--> 621 <400> SEQUENCE: (41) — no. differs from Seq. ID No.
622 ccaggagatt ccac 14
E--> 624 <210> SEQ ID NO: (42) — should be 41
635 <210> SEQ ID NO: 43
636 <211> LENGTH: 43
637 <212> TYPE: DNA
638 <213> ORGANISM: Artificial Sequence
640 <220> FEATURE:
641 <221> NAME/KEY: modified_base
W--> 642 (212) TYPE: (9) —> L2227
E--> 642 (212) TYPE: (9) delete
W--> 643 (213) ORGANISM: phosphorodithioate —> L2237
645 <220> FEATURE:
646 <221> NAME/KEY: modified_base
W--> 647 (212) TYPE: (20) —> L2227
E--> 647 (212) TYPE: (20) delete
W--> 648 (213) ORGANISM: phosphorodithioate
650 <220> FEATURE: —> L2237
651 <221> NAME/KEY: modified_base
W--> 652 (212) TYPE: (9) —> L2227
E--> 652 (212) TYPE: (9)
W--> 653 (213) ORGANISM: phosphate ester —> L2237
655 <220> FEATURE:
656 <221> NAME/KEY: modified_base
W--> 657 (212) TYPE: (20) —> L2227
E--> 657 (212) TYPE: (20) delete
W--> 658 (213) ORGANISM: phosphate ester —> L2237
W--> 660 <223> OTHER INFORMATION:
660 <400> SEQUENCE: 43
E--> 661 ccaggagatt ccacttttgt ggaatctcct gga 43

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/425,804B

DATE: 05/01/2002
TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw

Skipped Sequences(NEW RULES):

Sequence(s)___missing. If intentional, please use the following format for each skipped sequence.

<210> sequence id number
<400> sequence id number
000

Seq#:41

Use of <220> Feature(NEW RULES):

Sequence(s)___are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:2,14,25,43

VERIFICATION SUMMARY

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:38 M:254 E: No. of Bases conflict, LENGTH:Input:60 Counted:59 SEQ:1
M:254 Repeated in SeqNo=1
L:39 M:252 E: No. of Seq. differs, <211> LENGTH:Input:66 Found:65 SEQ:1
L:46 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:48 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:159 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:298 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:298 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:415 M:254 E: No. of Bases conflict, LENGTH:Input:14 Counted:15 SEQ:33
L:415 M:252 E: No. of Seq. differs, <211> LENGTH:Input:14 Found:15 SEQ:33
L:442 M:280 W: Numeric Identifier already exists, Type not replaced.
L:442 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:443 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:470 M:280 W: Numeric Identifier already exists, Type not replaced.
L:470 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:471 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:475 M:280 W: Numeric Identifier already exists, Type not replaced.
L:475 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:476 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:491 M:280 W: Numeric Identifier already exists, Type not replaced.
L:491 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:492 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:496 M:280 W: Numeric Identifier already exists, Type not replaced.
L:496 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:497 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:585 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:38
L:588 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:40
L:621 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:41
L:624 M:214 E: (33) Seq.# missing, SEQ ID NO:41
L:642 M:280 W: Numeric Identifier already exists, Type not replaced.
L:642 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:643 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:647 M:280 W: Numeric Identifier already exists, Type not replaced.
L:647 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:648 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:652 M:280 W: Numeric Identifier already exists, Type not replaced.
L:652 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:653 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:657 M:280 W: Numeric Identifier already exists, Type not replaced.
L:657 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:658 M:280 W: Numeric Identifier already exists, Organism not replaced.

VERIFICATION SUMMARY

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

L:660 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:661 M:254 E: No. of Bases conflict, LENGTH:Input:43 Counted:33 SEQ:43

L:661 M:252 E: No. of Seq. differs, <211> LENGTH:Input:43 Found:33 SEQ:43